



**Shell Chemicals**

# Cargo Handling Sheet

Methyl Isobutyl Carbinol (MIBC)

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Revision 8

*Cargo Handling Sheets are for the use of vessels chartered on behalf of Shell Chemicals*

## Product Details

Product Name: Methyl Isobutyl Carbinol

IMO Product Name: Methylamyl Alcohol

Chemical Family: Alcohols

Product Code: S1216

SDS: <http://www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets.html>

## Physical Properties

Density: 806 - 808 kg/m<sup>3</sup> (20 °C / 68 °F)

Dynamic Viscosity: 5.2 mPa.s (20 °C / 68 °F)

Vapor Pressure: 420 Pa (20 °C / 68 °F)

Boiling Point: 130 - 133 °C / 266 - 271 °F

Melting Point: Data not available

Flash Point: 41 °C / 106 °F

Appearance: Clear liquid with a sweet odour

**Note 1:** Physical Properties are for reference only and valid as of date of this revision; see loading terminal for specific properties.

**Note 2:** While this material is not expected to be a static accumulator, if sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air/vapour mixtures can occur.

**Note 3:** Hazard Identification: Flammable, Potential Static Accumulator, categorized as Toxic (IBC 2021); See SDS for full list of hazards and precautions.

## Transhipment

Prior to arranging transhipment Charterer must agree to Owner's proposed plan. When arranged by the Owner, Owner must ensure that all transhipment vessels comply with the requirements of this cargo handling sheet.

## Marpol Details

Marpol Annex: II

IMO Ship Type: 3; must be double hulled

Inland Barges: Double Hull

IMO Pollution Category:	Z
IBC 16.2.6:	No
IBC 16.2.9:	No
Pre-Wash Required:	No
Compatibility Group:	USCG compatibility group 20, not compatible with 12 Isocyanates.

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	No
N2 Blanket Required:	Not a PQ requirement; see notes below
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient
Transit Temperature Range:	Ambient - 40 °C / 104 °F
Discharge Temperature Range:	Ambient - 40 °C / 104 °F
Maximum Heating Coil Temperature:	Blanked off
Adjacent Maximum Cargo Temperature:	40 °C / 104 °F

**Note 1:** If vessel must inert tanks in accordance with regulation and/or Shell Chemical Inert Gas Clause, then only N2 will be accepted as an inerting medium.

**Note 2:** If Nitrogen blanket is in place and Carrier chooses to tranship, carrier must reapply nitrogen blanket on the cargo, both on the discharging and receiving vessel, at their time, risk, and expense.

**Note 3:** PQ = Product Quality

### Regional Requirements

None

### Tank Acceptance Requirements

All nominated shipboard cargo handling systems are to be presented clean (residual free), dry, odor free, rust free, with good gaskets, fit to load this cargo.

Maintenance of heating coils is to be verified in the ship's log. If product is to be heated, heating coils are to be confirmed leak free. If product is not heated, heating coils are to be blown clear and dried with N2, and blanked off.

**Stainless Steel or Coated Tank:** Either

**Note 1:** Vessels offered for loading into coated tanks:

- Carrier to verify suitability of coating
- For newly coated tanks, either partially or fully recoated, the tanks must have carried 3 or more cargoes for a total of >90days at >90% full.
- Tank Coating Condition Questionnaire submitted to Charterers for review prior to fixing a coated vessel
- Coated tanks to be in very good condition with minimal blistering or breakdown, < 0.5% total tank area
- All blisters to be scraped to hard coating
- All defects to be noted in Survey Report
- Pipelines and fittings to be stainless steel

**Banned Prior Cargo:** No

**Wall Wash Required:** Yes; all conducted with Methanol except PH test, which uses DI water

**Coated Tanks:** WWT conducted by cargo surveyor.

**Stainless Steel Tanks:** verification of shipboard WWT may be accepted if below specs are met. (Send WWT Verification to the responsible Shell Chemicals charterer and present to cargo surveyor and loading master at loading terminal.)

<b>Wall Wash Test:</b>	<b>Specification</b>	<b>Standard</b>
Hydrocarbons	Pass	ASTM D1722

**Additional WWT for Coated Tanks if Prior Cargo is:**

Prior Cargo	Wall Wash Test:	Specification	Standard
Acrylate	PPT	> 30 minutes	ASTM D1363
Oils, Waxes, Veg Oils, Fame	NVM	100 ppm	ASTM D1353
Acids, Alkalis	PH Test	6.9 – 7.1	ASTM E70

**Link to:** [WWT Verification Form](#)

## Safety Information and Incident Reporting

**Safety Information:**

HSSE information can be found in the SDS or e-SDS.

**Incident Reporting:**

All incidents should be reported in accordance with regulations and charter party requirements.

**International Registered Vessels:** If an incident occurs call Shell International Trading and Shipping in London on +442079347777.

**Jones Act Vessels:** call the Shell 24 hr. incident number at +17132412532. The USA National Response Center telephone number is +18004248802.

For additional marine cargo handling advice or information, contact the responsible regional Shell Chemicals Marine Technical Advisor.



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